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Agenda

- Parts Management embedded within IPDS
- IPDS overview
 - IPDS Stages
 - IPDS Gates
- Parts Management activities by stage
- Summary

Parts Management - 30,000 Foot View

Parts Management is embedded within our Integrated Product Development System (IPDS)

- IPDS is a system of
 - Common processes
 - Process execution assets
 - Reference materials
 - Training materials
 - Deployment materials
 - Support resources
- IPDS serves as Raytheon's process framework for
 - Business capture and proposal development
 - Program planning and execution
 - Product development, manufacture and support

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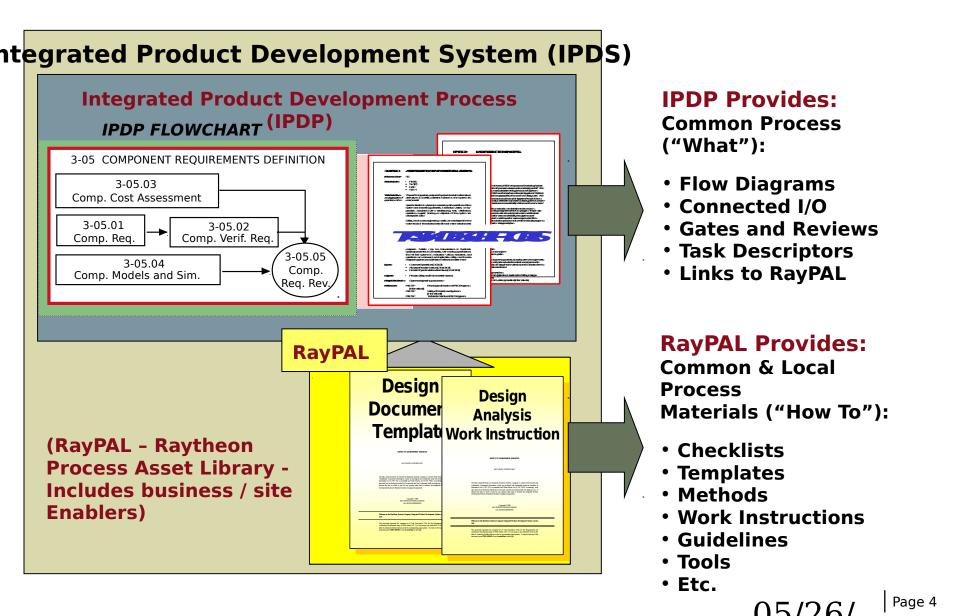
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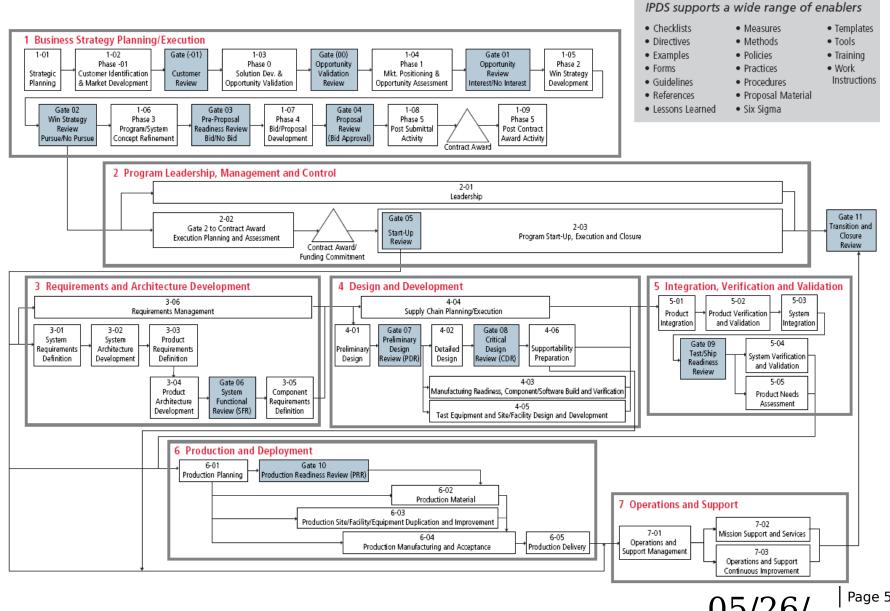


Structure of IPDS





IPDS Stages

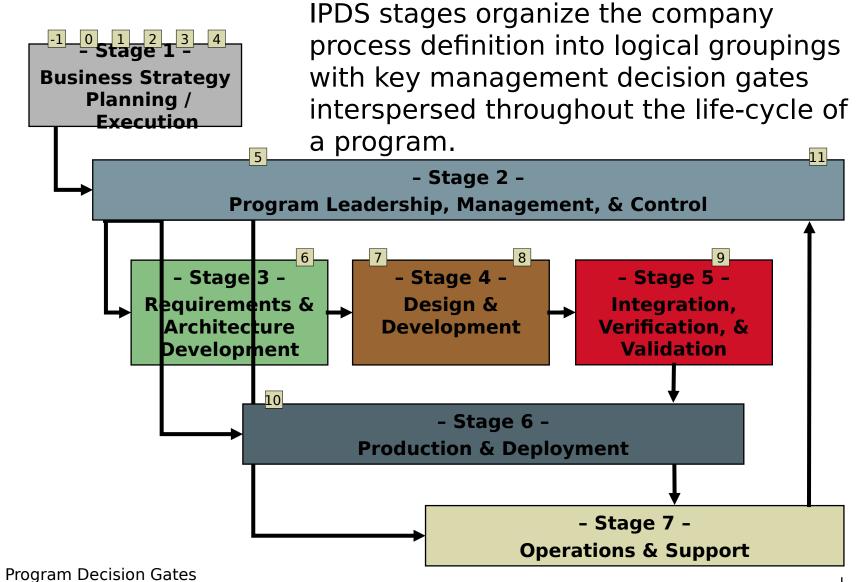


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Seven Major Stages

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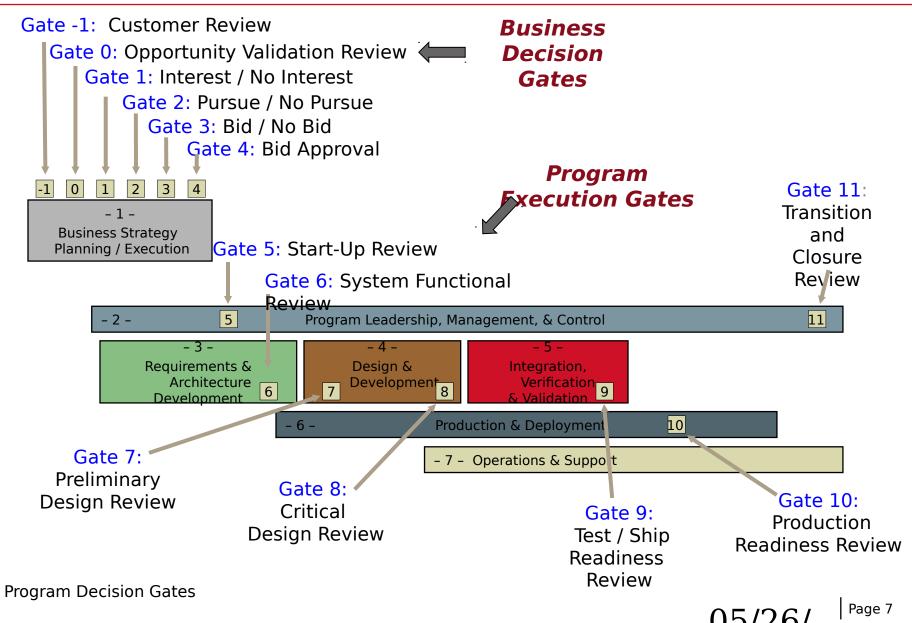


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Program Level Decision Gates



Program Execution Decision Gates

- Decision Gates are higher-level management assessments of program maturity and readiness to proceed to the next phase
 - Each Gate is preceded by an Independent Review (IR)
- An IR is a systematic evaluation of product and project maturity, which provides input to the Decision Gate
 - Each IR has a checklist of generic topics to be evaluated during the corresponding program phase
 - Gates 5 through 11 checklists include specific Parts Management assessment items

IRs verify PM tasking completion at key milestones

Parts Management (PM) Highlights

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- 1 -BUSINESS STRATEGY PLANNING / EXECUTION

MAJOR PM ACTIVITIES

- Identify needed reuse components, based on common architecture and business needs
- Evaluate current / imminent technologies & develop technology roadmaps
- Prepare & characterize initial BOM & identify critical items

KEY PM OUTPUTS

- Reuse Component Development Plans
- Technology Roadmaps
- Material Program Strategy

- 2 -PROGRAM LEADERSHIP MANAGEMENT & CONTROL

MAJOR PM ACTIVITIES

- Manage PM technical effort execution
 - Creation / maintenance of product development plans (e.g., Parts, Materials and Processes Plan)
 - Establish and maintain PM engineering databases and repositories
- Obtain product development plan approvals in accordance with program requirements
- Identify program execution risks due to obsolescence

Monitor / measure PM progress against proj KCE YO PM OUTPUTS

- Parts, Materials and Processes Plan
- Obsolescence Management Plan
- Tin Whisker Risk Mitigation Plan
- Obsolescence Analysis Reports



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Parts Management (PM) Highlights

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MAJOR PM ACTIVITIES

- Define parts, materials, and processes design approach & requirements
 - Design criteria, parts control requirements, parts testing requirements, etc.
- Perform system level obsolescence analysis

KEY PM OUTPUTS

- Parts Requirements
- Material and Process Requirements
- Obsolescence Analysis Report



MAJOR PM ACTIVITIES

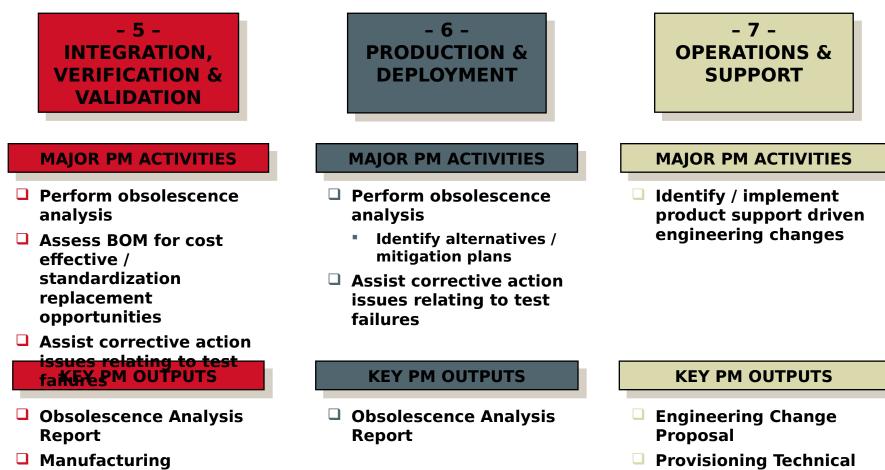
- Generate specifications for new parts, materials, and processes
- Update approved parts, materials, and process list
- □ Update non-standard parts list
- **Perform obsolescence analysis**
- □ Assess and qualify suppliers

KEY PM OUTPUTS

- Material Specifications
- Part Specifications
- Non-Standard Parts Approval Requests
- Approved Parts, Materials, and Process List
- Obsolescence Analysis Report
- Supplier Assessments 05/26/

Parts Management (PM) Highlights





Technology Assessment Provisioning Technical Data Package



Summary

- IPDS provides the framework within which our common parts management processes are integrated and deployed
- IPDS Stages organize processes into logical groupings
 Each stage contains specific parts management functions
- Decision Gates & Independent Reviews ensure parts management processes have been satisfied
 - Proceed to next phase cannot occur without exit criteria resolution